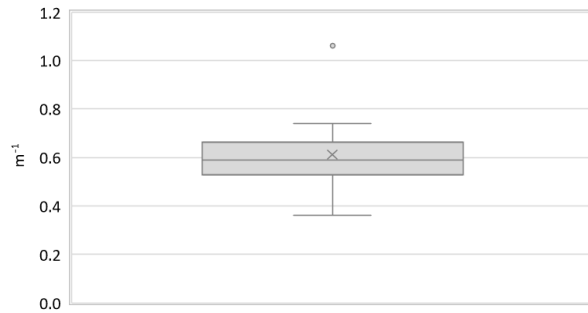


Region:	Trentino						Archetype code: COMM_ 1931-1940_F_TN	
Building category:	Commercial							
Period of construction:	1931-1940							
Climatic zone:	F	Number of records:		11				
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014): External walls: no data available Roof slabs: no data available							Data sources: EPC databases (100%)	
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
BUILDING GEOMETRY	Number of floors	n_f	-	-	-	-	-	-
	Gross height	H_g	m	-	-	-	-	-
	Footprint area	$A_{\text{footprint}}$	m ²	-	-	-	-	-
	Heated gross floor area	$A_{H,g}$	m ²	-	-	-	-	-
	Heated net floor area	$A_{H,n}$	m ²	86	44	58	72	90
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	390	227	231	303	482
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m ⁻¹	0.61	0.18	0.53	0.59	0.64
	WWR – North orientation	WWR_N	-	-	-	-	-	-
	WWR – South orientation	WWR_S	-	-	-	-	-	-
	WWR – East orientation	WWR_E	-	-	-	-	-	-
	WWR – West orientation	WWR_W	-	-	-	-	-	-
	Window to useful floor area ratio	A_{wi}/A_{use}	-	-	-	-	-	-
	ENVELOPE	Roof type	-					
U-value of the roof		$U_{\text{fl,up}}$	W/(m ² ·K)	-	-	-	-	-
External walls type		-						
U-value of the wall		U_{wl}	W/(m ² ·K)	-	-	-	-	-
Slab on ground floor type		-						
U-value of the floor		$U_{\text{fl,lw}}$	W/(m ² ·K)	-	-	-	-	-
Windows type		-						
U-value of the windows		U_W	W/(m ² ·K)	-	-	-	-	-
Shading system type		-						
GAINS and VENTILATION	Occupancy density *	O_C	person/m ²	UNI EN 16798-1				
	Lighting power density *	W_L	W/m ²	UNI EN 16798-1				
	Equipment power density *	W_A	W/m ²	UNI EN 16798-1				
	Type of ventilation	Natural: 100%						
	Air exchange rate *	n	h ⁻¹	UNI EN 16798-1				
THERMAL SYSTEMS	Heating system type	Unknown: 73%; Autonomous: 18%; Centralized: 9%						
	Heating generator	Boiler (unknown type): 89%; Air-source heat pump: 11%						
	Daily operating time of the heating system *	t_H	h	No limitation				
	Energy carrier	Electricity: 100%						
	Heating emission sub-system	-						
	Cooling system type	Unknown: 91%; Air-cooled chiller: 9%						
	Daily operating time of the cooling system *	t_C	h	No limitation				
	Cooling emission sub-system	-						
	DHW system type	Autonomous - detached from heating: 55%; Unknown: 45%						
	DHW generator	Electric boiler: 45%; Unknown: 45%; Electric Heat Pump: 10%						
* These values were not available in the considered sources, and are thus derived from UNI EN Standards								

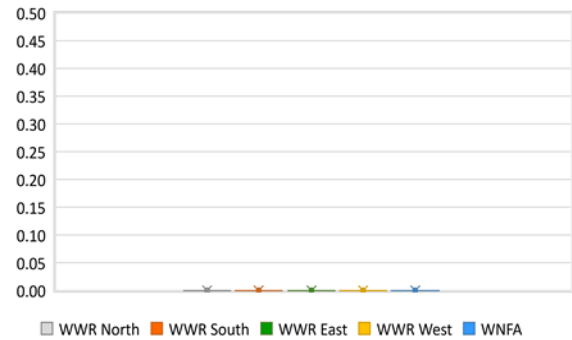
Region:	Trentino	Archetype code: COMM_ 1931-1940_F_TN
Building category:	Commercial	
Period of construction:	1931-1940	
Climatic zone:	F	
Number of records:		11

Numerical variables – GEOMETRY

COMPACTNESS RATIO

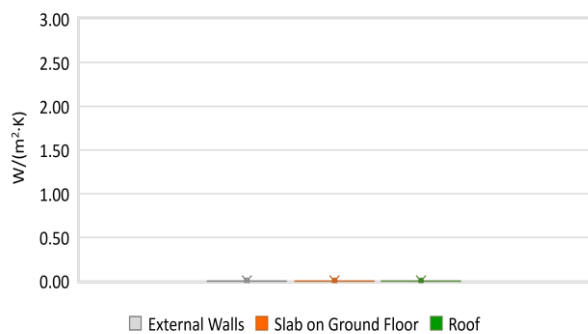


WINDOWS TO WALL RATIO



Numerical variables – ENVELOPE

OPAQUE BUILDING COMPONENTS U-VALUE

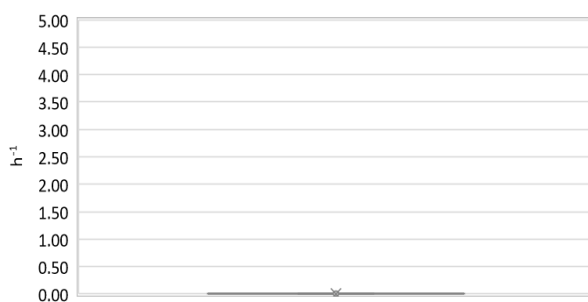


WINDOWS U-VALUE



Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE

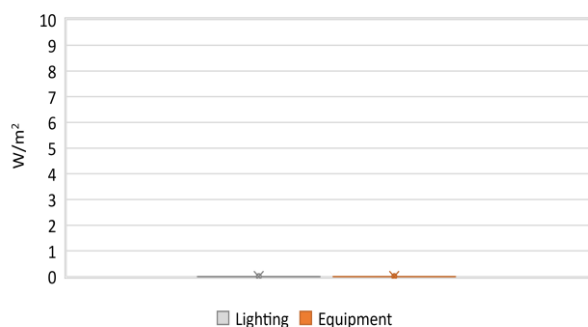
AIR EXCHANGE RATE



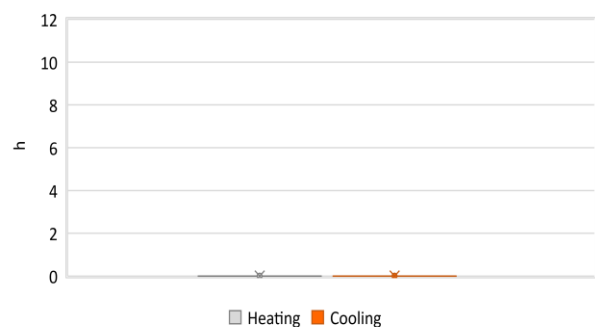
OCCUPANCY DENSITY



INTERNAL GAINS POWER DENSITY



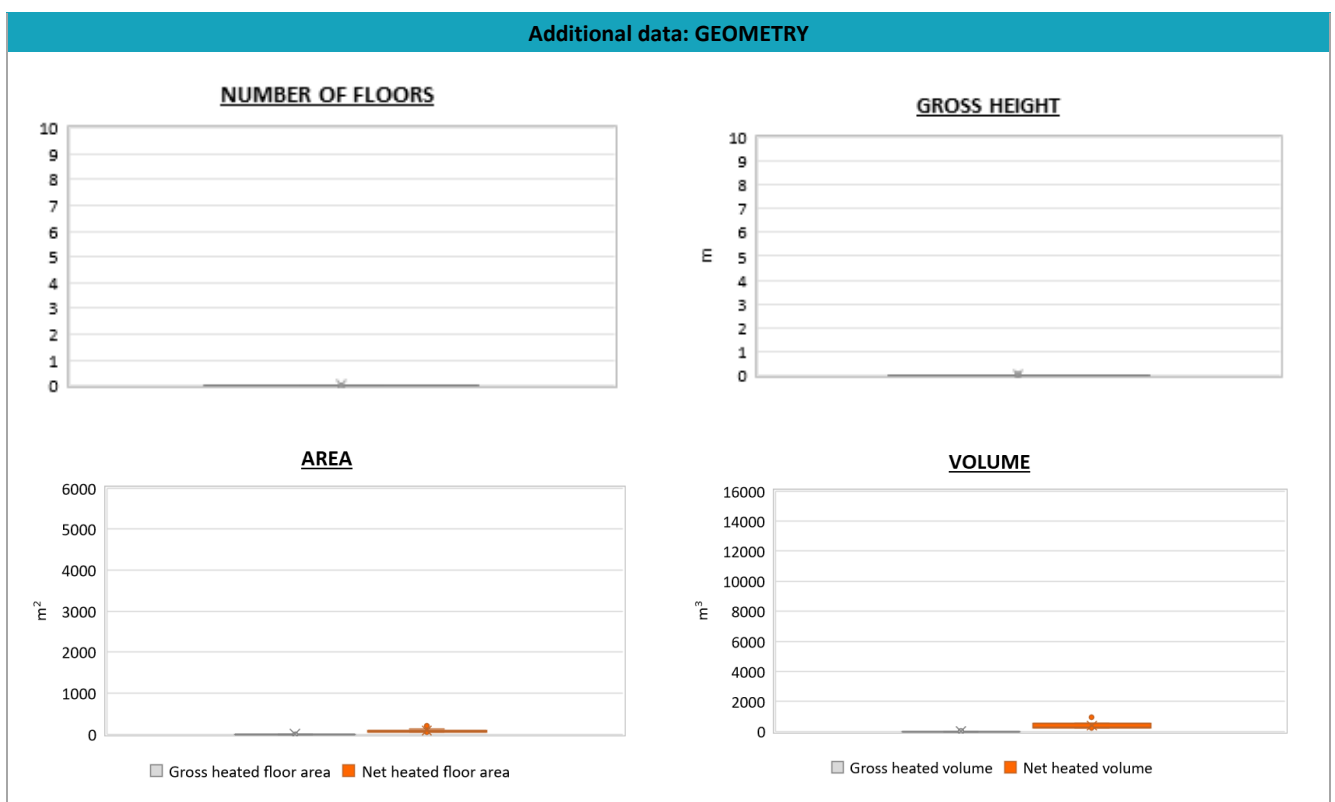
DAILY OPERATING TIME



The data can be used for analysis, modeling, and research purposes, as long as it remains unaltered in its original form. Users are free to publish results based on the data, provided they credit the original source.

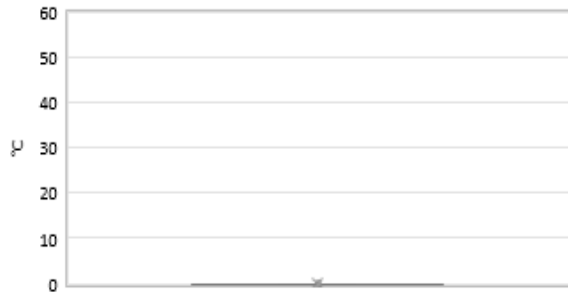
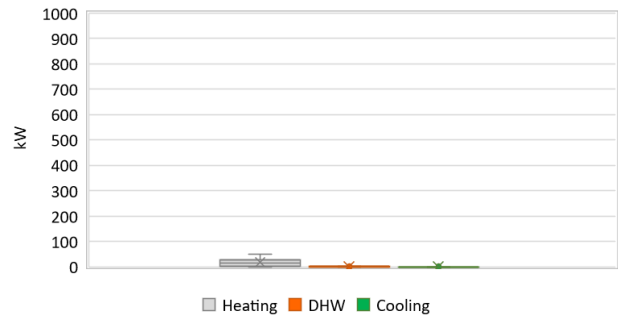
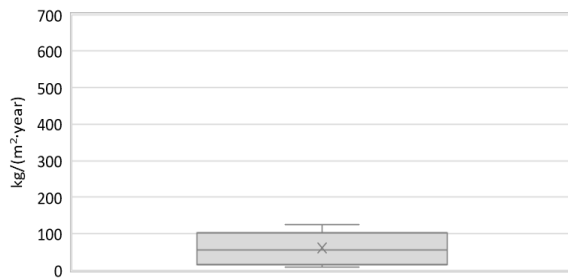
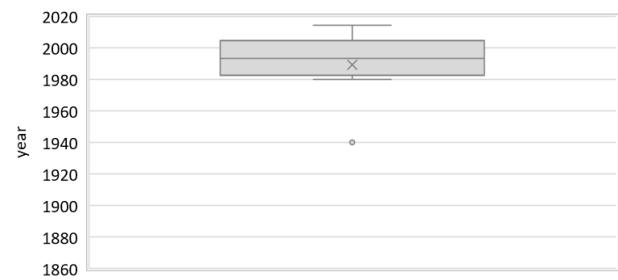
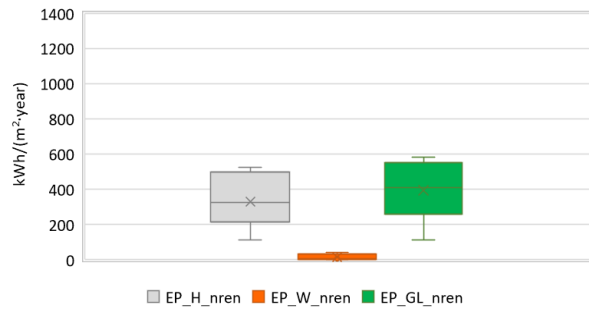
Region:	Trentino	Archetype code: COMM_ 1931-1940_F_TN
Building category:	Commercial	
Period of construction:	1931-1940	
Climatic zone:	F	
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ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
THERMAL SYSTEMS	Heating efficiency or <i>COP</i>	$\eta_{H,gen}$ or $COP_{H,gen}$	-	This value has to be retrieved from suitable datasheets				
	Total heating power *	$P_{H,gen}$	kW	23.72	13.16	13.92	24.00	30.20
	Cooling efficiency or <i>EER</i>	$\eta_{C,gen}$ or $EER_{C,gen}$	-	This value has to be retrieved from suitable datasheets				
	Total cooling power *	$P_{C,gen}$	kW	3.64	-	-	-	-
	Temperature of DHW	ϑ_W	°C	-	-	-	-	-
	DHW system power *	$P_{W,gen}$	kW	1.40	9.62	1.50	1.50	1.50



Region:	Trentino	Archetype code: COMM_ 1931-1940_F_TN
Building category:	Commercial	
Period of construction:	1931-1940	
Climatic zone:	F	
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Additional data: other numerical variables that are not included in the archetype

DHW SUPPLY TEMPERATURE

SYSTEM POWER

CO₂ EMISSION

HEATING SYSTEM INSTALLATION YEAR

NON-RENEWABLE PRIMARY ENERGY USE

RENEWABLE PRIMARY ENERGY USE
